



BTEC Nationals in Information Technology

ADVANCED STAGE

| YEAR 12 BTEC IT - Single NEW SPEC | | | | | | |
|---|---|---|---|---|---|--|
| | AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
| CONTENT | Unit 1: Information Technology Systems | Unit 1: Information Technology Systems | Unit 2: Creating Systems to Manage Information | Unit 2: Creating Systems to Manage Information | Unit 2: Creating Systems to Manage Information | Unit 3: Using Social Media in Business |
| SKILLS | <p>Demonstrate knowledge and understanding of information technology terms, standards, concepts and processes.</p> <p>Select and use information technologies and procedures to explore likely outcomes and find solutions to problems in context</p> | <p>Demonstrate knowledge and understanding of information technology terms, standards, concepts and processes.</p> <p>Select and use information technologies and procedures to explore likely outcomes and find solutions to problems in context</p> | <p>Demonstrate knowledge of database development terminology, standards, concepts and processes.</p> <p>Be able to develop a database solution to meet a client brief with appropriate justification.</p> | <p>Demonstrate knowledge of database development terminology, standards, concepts and processes.</p> <p>Be able to develop a database solution to meet a client brief with appropriate justification.</p> | <p>Demonstrate knowledge of database development terminology, standards, concepts and processes.</p> <p>Be able to develop a database solution to meet a client brief with appropriate justification.</p> | <p>Explore the impact of social media on the ways in which businesses promote their products and services.</p> <p>Develop a plan and implement the use social media in a business to meet requirements</p> |
| ASSESSMENT | Written and verbal feedback provided per criteria for each unit. Unit 1 and 2 are assessed externally. Unit 1 is an exam and Unit 2 takes the form of a controlled coursework which is carried out under exam conditions. The results of Unit 1 and 2 are returned as N (Near Pass), Pass, Merit and Distinction. Unit 3 is internally assessed work graded Distinction (A) , Merit(B) Pass (E). Feedback provided guides students to areas of the specification which they have not met. | | | | | |
| USEFUL RESOURCES/GUIDANCE: | | | | | | |
| BTEC Nationals Information Technology Student Book + Active book: For the 2016 specifications (BTEC Nationals IT 2016) – ISBN – 978-1292140414 | | | | | | |
| https://qualifications.pearson.com/en/qualifications/btec-nationals/computing-2016.html | | | | | | |
| http://www.teach-ict.com/ | | | | | | |
| https://www.knowitallninja.com/ | | | | | | |



Curriculum & Assessment Map

| YEAR 12 BTEC IT – Triple NEW SPEC | | | | | | |
|---|---|---|--|--|---|--|
| | AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
| CONTENT | <p><i>Unit 1: Information Technology Systems</i></p> <p><i>Unit 2: Creating Systems to Manage Information</i></p> <p><i>Unit 5: Data Modelling</i></p> | <p><i>Unit 1: Information Technology Systems</i></p> <p><i>Unit 2: Creating Systems to Manage Information</i></p> <p><i>Unit 5: Data Modelling</i></p> | <p><i>Unit 3: Using Social Media in Business</i></p> <p><i>Unit 4: Programming</i></p> <p><i>Unit 5: Data Modelling</i></p> | <p><i>Unit 3: Using Social Media in Business</i></p> <p><i>Unit 4: Programming</i></p> <p><i>Unit 9: IT Project Management</i></p> | <p><i>Unit 3: Using Social Media in Business</i></p> <p><i>Unit 4: Programming</i></p> <p><i>Unit 9: IT Project Management</i></p> | <p><i>Unit 6: Website Development</i></p> <p><i>Unit 6: Website Development</i></p> <p><i>Unit 9: IT Project Management</i></p> |
| SKILLS | <p>Demonstrate knowledge and understanding of information technology terms, standards, concepts and processes. Select and use information technologies and procedures to explore likely outcomes and find solutions to problems in context</p> <p>Demonstrate knowledge of database development terminology, standards, concepts and processes. Be able to develop a database solution to meet a client brief with appropriate justification.</p> | <p>Demonstrate knowledge and understanding of information technology terms, standards, concepts and processes. Select and use information technologies and procedures to explore likely outcomes and find solutions to problems in context</p> <p>Demonstrate knowledge of database development terminology, standards, concepts and processes. Be able to develop a database solution to meet a client brief with appropriate justification.</p> | <p>Explore the impact of social media on the ways in which businesses promote their products and services. Develop a plan and implement the use social media in a business to meet requirements</p> <p>Examine the computational thinking skills and principles of computer programming, design and develop a software solution to meet client requirements.</p> <p>Investigate data modelling and how it can be used in the</p> | <p>Explore the impact of social media on the ways in which businesses promote their products and services. Develop a plan and implement the use social media in a business to meet requirements</p> <p>Examine the computational thinking skills and principles of computer programming, design and develop a software solution to meet client requirements.</p> <p>Investigate the principles and methodologies of IT</p> | <p>Explore the impact of social media on the ways in which businesses promote their products and services. Develop a plan and implement the use social media in a business to meet requirements.</p> <p>Examine the computational thinking skills and principles of computer programming, design and develop a software solution to meet client requirements.</p> <p>Investigate the principles and methodologies of IT</p> | <p>Understand the principles of website development, design and develop a website to meet client requirements.</p> <p>Understand the principles of website development, design and develop a website to meet client requirements.</p> <p>Investigate the principles and methodologies of IT project management</p> |



Curriculum & Assessment Map

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| | Investigate data modelling and how it can be used in the decision-making process, design and develop a data model to meet client requirements | Investigate data modelling and how it can be used in the decision-making process, design and develop a data model to meet client requirements | decision-making process, design and develop a data model to meet client requirements | project management as used in industry, carry out the planning, execution, monitoring and controlling of an IT project, using an appropriate methodology | project management as used in industry, carry out the planning, execution, monitoring and controlling of an IT project, using an appropriate methodology | as used in industry, carry out the planning, execution, monitoring and controlling of an IT project, using an appropriate methodology |
| ASSESSMENT | Written and verbal feedback provided per criteria for each unit. Unit 1 and 2 are assessed externally. Unit 1 is an exam and Unit 2 takes the form of a controlled coursework which is carried out under exam conditions. The results of Unit 1 and 2 are returned as N (Near Pass), Pass, Merit and Distinction. Unit 3 and 5 are internally assessed work graded Distinction (A), Merit(B) Pass (E). Feedback provided guides students to areas of the specification which they have not met. | | | | | |
| USEFUL RESOURCES/GUIDANCE: BTEC Nationals Information Technology Student Book + Active book: For the 2016 specifications (BTEC Nationals IT 2016) – ISBN – 978-1292140414 https://qualifications.pearson.com/en/qualifications/btec-nationals/computing-2016.html http://www.teach-ict.com/ https://www.knowitallninja.com/ | | | | | | |

| YEAR 13 BTEC IT - Single NEW SPEC | AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
|---|--|---|---|---|---|-----------------|
| CONTENT | Unit 3: Using Social Media in Business | Unit 3: Using Social Media in Business | Unit 6: Website Development | Unit 6: Website Development | Unit 6: Website Development | |
| SKILLS | Explore the impact of social media on the ways in which businesses promote their products and services. Develop a plan and implement the use social media in a business to meet requirements | Explore the impact of social media on the ways in which businesses promote their products and services. Develop a plan and implement the use social media in a business to meet requirements | Understand and explore the principles of website development and design. Design and develop a website to meet client requirements. | Understand and explore the principles of website development and design. Design and develop a website to meet client requirements. | Understand and explore the principles of website development and design. Design and develop a website to meet client requirements. | |
| ASSESSMENT | Written and verbal feedback provided per criteria for each unit. Units 3 and 6 are internally assessed work graded Distinction (A) , Merit(B) Pass (E). Feedback provided guides students to areas of the specification which they have not met. | | | | | |
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| | AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
| CONTENT | <p><i>Unit 11: Cyber Security and Incident Management</i></p> <p><i>Unit 14: IT Service Delivery</i></p> <p><i>Unit 8: Computer Games Development</i></p> | <p><i>Unit 11: Cyber Security and Incident Management</i></p> <p><i>Unit 14: IT Service Delivery</i></p> <p><i>Unit 8: Computer Games Development</i></p> | <p><i>Unit 11: Cyber Security and Incident Management</i></p> <p><i>Unit 14: IT Service Delivery</i></p> <p><i>Unit 8: Computer Games Development</i></p> | <p><i>Unit 17: 2D and 3D Digital Graphics</i></p> <p><i>Unit 20: Enterprise in IT</i></p> <p><i>Unit 13: Software Testing</i></p> | <p><i>Unit 17: 2D and 3D Digital Graphics</i></p> <p><i>Unit 20: Enterprise in IT</i></p> <p><i>Unit 13: Software Testing</i></p> | |
| SKILLS | <p>Demonstrate and apply knowledge and understanding of technical language, security threats, system vulnerabilities and security protection methods, and implications resulting from successful threats in order to risk assess systems and select appropriate tools to secure them</p> <p>Be able to plan a secure computer network and manage security incidents with appropriate Justification</p> | <p>Demonstrate and apply knowledge and understanding of technical language, security threats, system vulnerabilities and security protection methods, and implications resulting from successful threats in order to risk assess systems and select appropriate tools to secure them</p> <p>Be able to plan a secure computer network and manage security incidents with appropriate Justification</p> | <p>Demonstrate and apply knowledge and understanding of technical language, security threats, system vulnerabilities and security protection methods, and implications resulting from successful threats in order to risk assess systems and select appropriate tools to secure them</p> <p>Be able to plan a secure computer network and manage security incidents with appropriate Justification</p> | <p>Investigate the purpose and characteristics of digital graphics that are an important part of visual communications</p> <p>Design 2D and 3D digital graphics products to meet a client brief using design documentation</p> <p>digital graphics processing and techniques</p> <p>Develop 2D and 3D digital graphics products to meet a client brief using relevant tools and techniques for developing digital graphics</p> | <p>Investigate the purpose and characteristics of digital graphics that are an important part of visual communications</p> <p>Design 2D and 3D digital graphics products to meet a client brief using design documentation</p> <p>digital graphics processing and techniques</p> <p>Develop 2D and 3D digital graphics products to meet a client brief using relevant tools and techniques for developing digital graphics</p> | |



Curriculum & Assessment Map

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| | <p>Demonstrate and apply knowledge and understanding of IT service-delivery related facts, terminology, standards, concepts and processes explore outcomes and find solutions to IT service delivery problems. Be able to design an IT service delivery solution for an organisation with appropriate Justification.</p> <p>Investigate technologies used in computer gaming Design a computer game to meet client requirements using computer games design processes and techniques Develop a computer game to meet client requirements using principles of computer games development</p> | <p>Demonstrate and apply knowledge and understanding of IT service-delivery related facts, terminology, standards, concepts and processes explore outcomes and find solutions to IT service delivery problems. Be able to design an IT service delivery solution for an organisation with appropriate Justification.</p> <p>Investigate technologies used in computer gaming Design a computer game to meet client requirements using computer games design processes and techniques Develop a computer game to meet client requirements using principles of computer games development</p> | <p>Demonstrate and apply knowledge and understanding of IT service-delivery related facts, terminology, standards, concepts and processes explore outcomes and find solutions to IT service delivery problems. Be able to design an IT service delivery solution for an organisation with appropriate Justification.</p> <p>Investigate technologies used in computer gaming Design a computer game to meet client requirements using computer games design processes and techniques Develop a computer game to meet client requirements using principles of computer games development</p> | <p>Explore the nature of enterprise and entrepreneurship in an IT context Develop a marketing plan for an IT product or service based on market research Present a plan for a start-up IT enterprise using lean or traditional business principles</p> <p>Understand the software development and testing methodologies commonly used during the development life cycle to quality assure software Carry out a range of testing methodologies on a software product to meet a client's needs Review and present the results from software tests to meet a client's needs and suggest improvements</p> | <p>Explore the nature of enterprise and entrepreneurship in an IT context Develop a marketing plan for an IT product or service based on market research Present a plan for a start-up IT enterprise using lean or traditional business principles</p> <p>Understand the software development and testing methodologies commonly used during the development life cycle to quality assure software Carry out a range of testing methodologies on a software product to meet a client's needs Review and present the results from software tests to meet a client's needs and suggest improvements</p> | |
| ASSESSMENT | Written and verbal feedback provided per criteria for each unit. Unit 11 and 14 are assessed externally. Both units 11 and 14 are an exam are carried out under exam conditions where the results are returned as N (Near Pass), Pass, Merit and Distinction. Unit 8, 17, 20, 13 are all internally assessed work graded Distinction (A), Merit(B) Pass (E). Feedback provided guides students to areas of the specification which they have not met. | | | | | |
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